

Abstract

A direct current voltage converter comprises a unit (BGR) for preparing a reference voltage (V_{ref}), a regulator(OP), a pulse width modulator (Comp, V_{sw}), a voltage-controlled pole-changing switch (T, D), a storage choke (L) and a smoothing
5 capacitor (C). An insulated line connects a reference potential, to which the input voltages of the regulator drop, with a ground terminal of the smoothing capacitor (C). In this way the noise signals of the direct current voltage converter are considerably reduced.